# CoreLine Downlight

## DN140B LED10S/830 PSD-E C

DN140B | Coreline Downlight Gen4 - 830 warm white - Power supply unit with DALI interface - High-gloss mirror - Push-in connector and pull relief - IP20 | Finger-protected

CoreLine Downlight delivers on the CoreLine promise of innovative, easy to use and high-quality recessed downlights. The CoreLine Downlight range is suitable for one-to-one conventional luminaire replacements, with an attractive TCO that helps customers to make the switch to LED. These recessed downlights create uniform light distribution for use in general lighting applications. They also deliver instant energy savings and have a much longer lifetime, creating a real value-for-money and environmentally-friendly solution. CoreLine DN140B recessed downlights are easy to install thanks to their standard cut-out size and push-in connectors. An InterAct Ready option with integrated wireless communications is available in this family, which can be used with InterAct gateways, sensors and software.

## Product data

### General Information

| | |
|---|---|
| Light source replaceable | No |
| Number of gear units | 1 unit |
| Driver included | Yes |
| Remarks | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value. |
| Service tag | Yes |

| | |
|---|---|
| Product family code | DN140B [Coreline Downlight Gen4] |
| Lighting Technology | LED |
| Value ladder | Performance |

### Light Technical

| | |
|---|---|
| Luminous Flux | 1,100 lumen |
| Saturated Red (R9) | <50 |
| Correlated Color Temperature (Nom) | 3000 K |
| Luminous Efficacy (rated) (Nom) | 96 lm/W |
| Color rendering index (CRI) | ≥80 |
| Beam angle of light source | 120 degree(s) |
| Light source color | 830 warm white |

# CoreLine Downlight

| | |
|---|---|
| Optic type | – |
| Luminaire light beam spread | 60° |
| Unified glare rating CEN | 22 |

## Operating and Electrical

| | |
|---|---|
| Input Voltage | 220-240 V |
| Line Frequency | 50 to 60 Hz |
| Input Frequency | 50 to 60 Hz |
| Initial CLO power consumption | – W |
| Average CLO power consumption | – W |
| Power Consumption | 11.5 W |
| End CLO power consumption | – W |
| Inrush current | 20.4 A |
| Inrush time | 0.195 ms |
| Power Factor (Fraction) | 0.9 |
| Connection | Push-in connector and pull relief |
| Cable | – |
| Number of products on MCB of 16 A type B | 24 |

## Temperature

| | |
|---|---|
| Ambient temperature range | –20 to +40 °C |

## Controls and Dimming

| | |
|---|---|
| Dimmable | Yes |
| Driver/power unit/transformer | Power supply unit with DALI interface external |
| Control interface | DALI |
| Constant light output | No |

## Mechanical and Housing

| | |
|---|---|
| Housing Material | Aluminium |
| Reflector material | Polycarbonate aluminum coated |
| Optic material | Polycarbonate |
| Fixation material | Steel |
| Housing Color | White |
| Reflector Finish | High-gloss reflector |
| Overall length | 0 mm |
| Overall width | 0 mm |
| Overall height | 100 mm |
| Overall diameter | 162 mm |
| Dimensions (Height x Width x Depth) | 100 x 0 x 0 mm |

## Approval and Application

| | |
|---|---|
| Ingress protection code | IP20 [Finger-protected] |
| Mech. impact protection code | IK02 [0.2 J standard] |
| Sustainability rating | – |
| Protection class IEC | Safety class I |
| Glow-wire test | Temperature 850 °C, duration 5 s |
| Flammability mark | For mounting on normally flammable surfaces |
| CE mark | Yes |
| ENEC mark | – |
| Warranty period | 5 years |
| EU RoHS compliant | Yes |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| Luminous flux tolerance | +/-10% |
| Initial chromaticity | (0.433,0.405) SDCM≦5 |
| Power consumption tolerance | +/-10% |

## Over Time Performance (IEC Compliant)

| | |
|---|---|
| Driver failure rate at 5000 h | 1 % |
| Control gear failure rate at median useful life 50000 h | 5 % |
| Lumen maintenance at median useful life* 50000 h | L70 |

## Application Conditions

| | |
|---|---|
| Performance ambient temperature Tq | 25 °C |
| Maximum dim level | 1% |
| Suitable for random switching | Yes |

## Product Data

| | |
|---|---|
| Full product code | 871016332590300 |
| Order product name | DN140B LED10S/830 PSD-E C |
| Order code | 911401632005 |
| Numerator – Quantity Per Pack | 1 |
| Numerator – Packs per outer box | 1 |
| Material number (12NC) | 911401632005 |
| Full product name | DN140B LED10S/830 PSD-E C |
| EAN/UPC – Case | 8710163325903 |

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**Dimensional drawing**

www.lighting.philips.com

2023, May 18 – data subject to change